## AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

- (Currently Amended) A computer-implemented method for computer virus prevention, said method comprising the steps of:
  - entering a first computer virus status mode in response to a first computer virus outbreak report indicating a virus attack threat to a computer network;
  - computing a first computer virus alert time corresponding to entry into the first computer virus status mode;
  - comparing a time stamp of [a] executable computer code content

    corresponding to an execution time of the computer code with the first computer virus alert time; and
  - determining the executability of the computer <u>code</u> <del>content</del> in response to the result of the comparing step.
- (Original) The method of claim 1, wherein the step of computing the first virus alert time comprises the steps of:
  - receiving a first access control time based on the first virus outbreak report; and
  - converting the first access control time into the first virus alert time.
- (Original) The method of claim 2, wherein the first access control time is a relative time stamp.

<ol> <li>(Original) The method of claim 2, wherein the first access control time is a pre-determined time period for access control under the first computer virus status mode.</li> </ol>
(Currently Amended) The method of claim 1, further comprising the step of:  determining the presence of a value representing the computer code eontent in a memory table of executable computer content.
6. (Currently Amended) The method of claim 5, wherein the computer <u>code</u> <del>content</del> is not executed when the value representing the computer <u>code</u> <del>content</del> is not present in the memory table of executable computer <u>code</u> <del>content</del> .
7. (Currently Amended) The method of claim 5, wherein the value is a hash value of the computer <u>code</u> <del>content</del> .
8. (Currently Amended) The method of claim 1, wherein the computer <u>code</u> eontent is executed only when the computer <u>code</u> eontent is time stamped prior to the first computer virus alert time.

- (Original) The method of claim 1, further comprising the steps of: entering types of computer codes that should be blocked from execution in response to the first computer virus outbreak report; and blocking execution of a computer code that belongs to the entered types of computer codes.
- (Currently Amended) The method of claim 1, further comprising the steps of:
  - generating a second virus alert time in response to a second computer virus outbreak report;
  - comparing the time stamp of the computer <u>code</u> <del>content</del> with the second computer virus alert time;
  - performing anti-virus processing upon the computer <u>code</u> <del>content</del>; and determining the executability of the computer <u>code</u> <del>content</del> in response to the result of comparing the time stamp of the computer <u>code</u> <del>content</del> with the second computer virus alert time.
- (Currently Amended) The method of claim 1, wherein the computer <u>code</u>
   eontent is attached to an E-mail body, and said method further comprises the steps of:
   removing the computer <u>code</u> eontent from the E-mail body; and
   denying execution of the computer <u>code</u> eontent.

- (Currently Amended) A computer access control system for computer virus prevention, said system comprising:
  - an access control console, for entering a first computer virus status mode in response to receiving a computer virus outbreak report indicating a virus attack threat to a computer network and for recovering a preselected virus access control time corresponding to said virus status mode; and
  - an anti-virus module, coupled to the access control console, configured to compute a virus alert time based on the virus access control time and to compare a time stamp of a target executable computer code corresponding to an execution time of the executable computer code eontent with the virus alert time prior to execution of the target executable computer code eontent, and
  - wherein the anti-virus module is further configured to determine whether to

    execute the executability of the target executable computer code

    content in response to comparing the time stamp of the target

    executable computer code content with the virus alert time.
- 13. (Currently Amended) The system of claim 12, wherein the target computer <u>code</u> eontent is one of a plurality of computer eontents <u>code files</u>, and the anti-virus module further comprises:
  - a memory module for storing time stamps of the plurality of computer contents code files; and
  - an access control module, coupled to the access control console and to the memory module, for computing the virus alert time and for comparing the time stamp of <u>a</u> each target <u>executable</u> computer <u>code</u> <del>content</del> with the virus alert time.

14. (Currently Amended) The system of claim 13, wherein the anti-virus module further comprises:
a computer virus processing module, coupled to the access control module, fo
further processing a the target executable computer code content in
order to determine whether to execute the executability of the target
executable computer code content.
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15. (Currently Amended) The system of claim 13, wherein the memory
module stores a value representing each of the computer <u>code files</u> <del>contents</del> .
16. (Currently Amended) The system of claim 15, wherein the access control
module is configured to determine the presence of the value in the memory module as
representing a target executable computer code content.
topicsoning a target <u>excessions</u> compact <u>exces</u> content.
17. (Original) The system of claim 15, wherein the value is a hash value.
18. (Canceled)
10 (7 1 1)
19. (Canceled)

20. (Currently Amended) A computer-implemented method for computer virus prevention, said method comprising the steps of:

creating a list of time-stamped executable computer files, each file time-stamped with an execution time of the file contents;

entering a virus alert mode in response to a virus outbreak report indicating a virus attack threat to a computer network;

responsive to the virus alert mode, entering an access control message for specifying an access control rule for blocking the execution of suspicious or susceptible executable computer files contents that are time-stamped not before a computed virus alert time, the access control message including a first control parameter for computing the virus alert time:

receiving a request to execute a target <u>executable</u> computer <u>file</u> <del>content</del>; and determining <u>whether to the execute</u> <del>executability of</del> the target <u>executable</u> computer <u>file</u> <del>content</del> based on the access control rule in the access control message.

21. (Currently Amended) The method of claim 20, wherein the step of creating a list of time-stamped executable computer <u>files contents</u>, comprises: applying <u>an</u> anti-virus operation upon each executable computer <u>file</u> contents is storing a hash value of each executable computer <u>file</u> contents in the list; and inserting a time stamp corresponding to the moment of storing the hash value of the executable computer <u>file</u> contents.

 (Currently Amended) The method of claim 20, wherein the step of determining whether to execute the executability of the target computer file content comprises the steps of:

receiving the access control message;

automatically converting the first control parameter into the virus alert time; comparing the time stamp of the target computer <u>file</u> <del>content</del> in the list with the virus alert time; and

determining whether to execute the executability of the target executable computer file content based on the result of the comparing step.

- 23. (Currently Amended) The method of claim 22, further comprising the step of:
  - applying an anti-virus operation upon the target executable computer file
- 24. (Currently Amended) The method of claim 20, wherein the control message comprises:
  - a second control parameter for specifying types of computer <u>files</u> <del>contents</del> that should be subject to the access control rule;
  - a third control parameter for specifying an expiration time for the access control rule; and
  - a fourth control parameter for identifying the access control message.
  - (Original) The method of claim 24, further comprising the step of: determining validity of the access control message based on the third control parameter.

- (Currently Amended) The method of claim 24, further comprising the step of:
  - determining whether to the execute executability of the target executable computer file eontent based on the second control parameter.
- 27. (Currently Amended) A computer-implemented method for computer virus prevention, said method comprising the steps of:
  - creating a list of time-stamped executable computer files, each file timestamped with an execution time of the file contents;
  - entering a virus alert mode in response to a virus outbreak report indicating a virus attack threat to a computer network;
  - responsive to the virus alert mode, entering an access control message for specifying an access control rule for blocking data communication initiated by computer files eontents that are time-stamped not before a virus alert time, the access control message including a first control parameter for computing the virus alert time;
  - receiving a request to examine a target executable computer file eontent that participates in the data communication; and
  - determining whether the data communication should be blocked based on the
- (Currently Amended) The method of claim 27, wherein the step of determining whether the data communication should be blocked comprises the steps of: receiving the access control message;
  - converting the first control parameter into the virus alert time;
  - comparing the time stamp of the target executable computer <u>file</u> e<del>ontent</del> in the list with the virus alert time; and
  - determining whether the data communication should be blocked based on the comparing step.

- (Currently Amended) The method of claim 28, wherein the data communication is blocked when the target executable computer file eontent is timestamped not before the virus alert time.
- 30. (Currently Amended) A computer access control system for computer virus prevention, comprising:
  - a firewall module monitoring data communications initiated by a target

    executable computer file content and sending a request to examine the
    data communications:
  - an access control console, for generating an access control message specifying an access control rule for blocking data communications of the target executable computer file contents that are time-stamped not before a virus alert time, the access control message including a first control parameter for computing the virus alert time in response to receiving a virus outbreak report indicating a virus attack threat to a computer network; and
  - an access control module, coupled to the access control console and the firewall module, configured to receive the access control message and a request from the firewall module, and to compute the virus alert time based on the virus access control time and to determine whether the data communication should be blocked based on the access control rule.

- 31. (Currently Amended) A computer program product comprising:
  - a computer usable medium having computer readable code embodied therein for computer access control for computer virus prevention, the computer program product comprising:
  - a computer readable program code device configured to receive a computer virus status mode in response to a computer virus outbreak report indicating a virus attack threat to a computer network;
  - a computer readable program code device configured to compute a computer virus alert time corresponding to entry into the computer virus status mode:
  - a computer readable program code device configured to compare a time stamp
    of an executable computer file corresponding to an execution time of
    the executable computer file content with the computer virus alert
    time; and
  - a computer readable program code device configured to determine whether to execute executability of the executable computer file computer content in response to the result of comparing the time stamp of the computer content with the computer virus alert time.
- (Currently Amended) A computer access control system for computer virus prevention, said system comprising:
  - means for entering a computer virus status mode in response to receiving a virus outbreak report indicating a virus attack threat to a computer network and for generating a virus access control time; and coupled to the entering and generating means, means for computing a virus alert time based on the virus access control time; and coupled to the computing virus alert time means, means for comparing a time stamp of a target executable computer file corresponding to an execution time of the computer file eentent with the virus alert time prior to execution of the target executable computer file eentent and

for determining whether to execute the executability of the target executable computer file content in response to comparing the time stamp of the target executable computer file content with the virus alert time.

- 33. (Currently Amended) A computer access control system for computer virus prevention, said system comprising:
  - means for storing time-stamped executable computer code time-stamped with an execution time of the computer code eontents;
  - a firewall means for monitoring data communications with occurring to the executable computer code contents;
  - means for entering a computer virus status mode in response to receiving a virus outbreak report indicating a virus attack threat to a computer network and for generating a virus access control time;
  - coupled to the entering and generating means, means for computing a virus alert time based on the virus access control time; and
  - coupled to the computing virus alert time means and the storing means and the firewall means, means for comparing a time stamp of en executable computer code eontent with the virus alert time to determine whether the data communication with occurring to the executable computer code eontent should be blocked.